



Model: I-8KE4-G



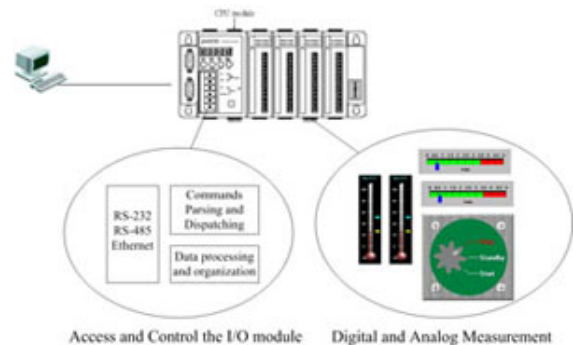
Model: I-8KE8-G

I-8KE4/ I-8KE8 I-8KE4-G/ I-8KE8-G

Embedded Ethernet I/O Unit

Introduction

The I-8KE4 and I-8KE8 are embedded Ethernet I/O units using DCON Protocol Firmware. ICPDAS provides various I/O modules, such as analog input/output, digital input/output and counter/frequency modules, which can be used in remote data acquisition and control applications for environment monitoring, power management and factory automation, etc via **Ethernet Port** or **RS-232 Port**.



The CPU is a 16-bit 80186-80 (80MHz). Apart from the original functions (input, output, power on value, safe value, high limit value, low limit value) of the I/O module, the firmware provides additional functions to allow I/O modules in different slots to be combined together. For example, if the channel value of an AI module is above a predefined high limit value, or below a predefined low limit value, the information can be immediately passed to another DO module to trigger alarm or light.

Various software development kits (SDK) and demos are provided, such as DLL, ActiveX, Labview driver, Indusoft driver, Linux driver, OPC server, etc.

Although all the SDK drivers support only COM Port interface, users can also use their SDK by installing the VxComm Utility. VxComm Utility can create Virtual COM Port to map the Ethernet Port, then the I/O modules can be easily added to the I-8KE4/I-8KE8 and can be quickly integrated into an existing system.

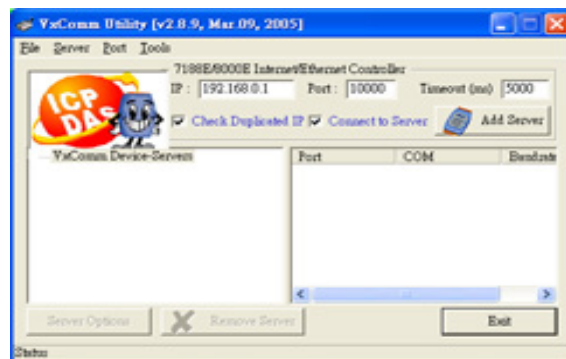
Features

- Supports IPv4.
- Supports the Ethernet or RS-232 communication interface.
- Supports DCON communication protocol
- Dual Bus designed to support I-8K and I-87K series I/O modules, such as DI/DO, AI/AO, Counter/Frequency modules
- Compact I/O Expansion slot allows the quick installation of various 8K and 87K I/O modules



By using the VxComm Utility, PC can use Virtual COM Port to communicate with the remote Ethernet I/O.

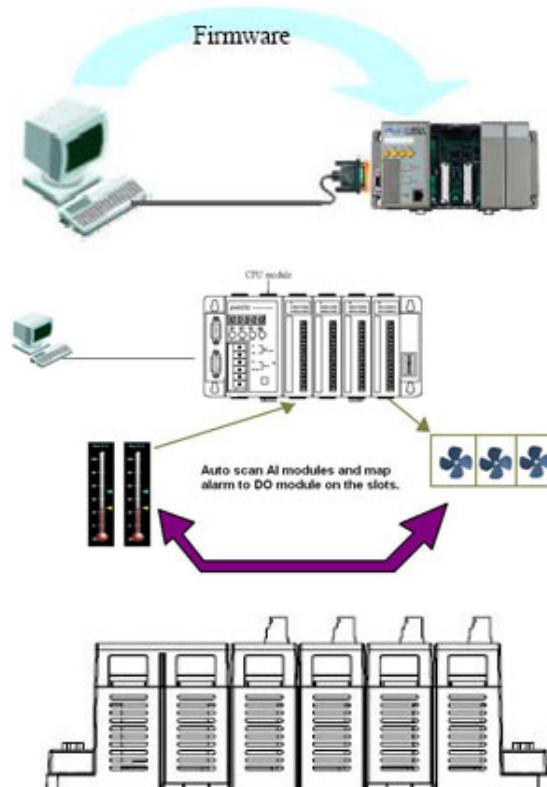
Note: Remote Ethernet I/O must support XServer to have Virtual COM Port function.



I/O configurable using DCON Utility via Ethernet port or RS-232 Port.



Firmware updated via the RS-232 port



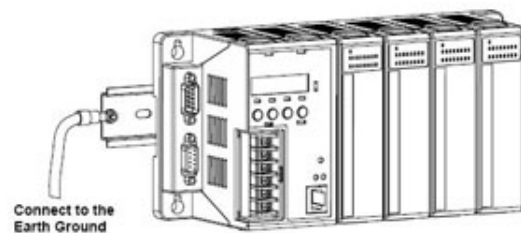
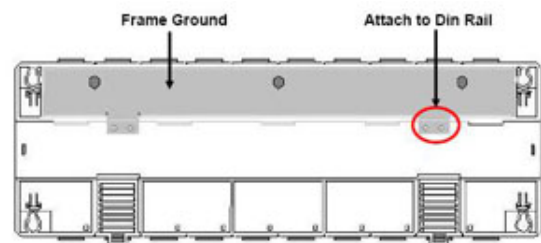
Firmware auto scan AI modules and can map alarm to DO modules on the slots.

Dual Watch Dog mechanism enable I-8000 system can work reliably under harsh environment.

Ventilated housing designed to operate between -25°C to $+75^{\circ}\text{C}$

Using DIN rail clips or Screw poles around the corners allows the control unit to be easily mounted on the control box

Frame Ground provides a path for bypassing ESD, allowing enhanced static protection (ESD) capability and ensures that the module is more reliable.



Various SDKs provided (free)
 DLL, ActiveX, Labview driver, Indusoft driver, Linux driver, OPC server, etc



Specifications

CPU module

CPU	CPU:80186-80 or compatible (16-bit and 80MHz)
SRAM	512KBytes
Flash	512KBytes
EEPROM	2KBytes
NVRAM	-
RTC (real time clock)	-
Hardware Serial Number	-
Built-in Watchdog Timer	Yes

Communicate Interface

COM 0	Internal communication with the 87K modules
COM 1	RS-232 (to update firmware)
COM 2	-
COM 3	-
COM 4	-
Ethernet Port	10BaseT NE2000 compatible

SMMI

5 - Digit LED Display	Yes
3 - Programmable LED Indicators	Yes
4 - Push Buttons	Yes

I/O expansion slots

8KE4	4 Slots
8KE8	8 Slots

Dimensions

8KE4	230mm x 110mm x 75.5mm
8KE8	354mm x 110mm x 75.5mm

Operating Environment

Operating Temperature	-25°C to +75°C
Storage Temperature	-30°C to +85°C
Humidity	5 ~ 95%,non-condensing

Power

Protection	Power reverse polarity protection
3KV power isolation	Yes
Power requirement	10 ~ 30 V/DC
Power supply	20W
Power consumption	I-8KE4 : 3.9 W I-8KE8 : 5.1 W

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Ordering information

I-8KE4	I-8KE4 Embedded I/O unit
I-8KE8	I-8KE8 Embedded I/O unit
I-8KE4-G	I-8KE4 Embedded I/O unit with gray color
I-8KE8-G	I-8KE8 Embedded I/O unit with gray color

Accessories

KA-52F	AC100~250V input, DC 24V/1A output, flat type power supply
DIN-KA52F	KA-52F with DIN-Rail mount
DP-665	AC 85 ~ 270 V input, DC 24V/1.7A and 5V/0.5A output power supply
DP-660	24V/1.7A 5V/0.5A Power Supply
DP-1200	24V/5A Power Supply

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